

The European Patent Office D-80298 MUENCHEN Germany

By Fax & Mail

Patent & Trade Mark Attorneys

Bloxam Court **Corporation Street** Rugby Warwickshire: CV21 2DU

Telephone: +44 (0)1788 577000 Facsimile: +44 (0)1788 540783

email: rugby@hlbbshaw.com www.hlbbshaw.com

Dear Sirs

Re:

25 November 2005

International Patent Application No PCT/US2004/040970

MeadWestvaco Corporation

Our File PWO051624

We refer to the Written Opinion dated 25 October 2005. We enclose the applicant's response, amended pages 1 to 2 of the description together with new pages 2a to 2e and amended page numbered 14 to 20 being the claims which replace the claims presently on file. We also enclose a marked up copy illustrating the amendments for case of reference. The amendments are drafted to reflect the observations made by the Examiner.

The Examiner is respectfully requested to reconsider the application in light of the observations and claims as now submitted. The limitation proposed in the amended claims must not be construed as abandonment of any subject matter thereby excluded; the applicant expressly reserves the right to file one or more divisional applications.

We confirm our request for detailed examination and issue of a second written opinion if any substantive objections to lack of novelty and/or lack of inventive step still remain.

Please acknowledge receipt of this letter and enclosures by stamping and returning the attached acknowledgement slip.

Yours faithfully

Authorised Representative

Encl

JMH/JR/RW/W01624\_5

# Response to the Written Opinion dated 25 October 2005

International Patent Application No PCT/US2004/040970 MeadWestvaco Corporation Mead Docket CPG 03-26 KF PCT Our File PWO051624

The specification should be amended as follows:

In the description

Pages 1 to 2: cancel and replace with amended pages 1 to 2 attached hereto. We also file herewith new pages 2a to 2e.

The description has been amended to bring it into conformity with the claims.

In the claims:

Claims 1 to 37: cancel and replace with amended claims 1 to 43 attached hereto. Original claims 1 to 37 are cancelled on a without prejudice basis and with specific reservation of the right to make the subject matter of the deleted claims or any of them, the subject of a divisional application.

This is the applicant's response to the Written Opinion dated 25 October 2005 dealing with the paragraphs of the Communication in order:

In Paragraph IV, the Examiner objects to the plurality of independent claims on the basis that they do not form a common inventive concept. The applicant wishes to amend claims 1, 10, 12, 14, 16, 18, 27, 31 and 36. Each of the amended independent claims is now linked by the common inventive concept that a portion of the sleeve prevents access to a part of a complementary locking mechanism. Furthermore, the Applicant wishes to include new claims 38 to 43 which defines that the package and outer sleeve each comprise a part of a complementary locking mechanism wherein a part of the sleeve prevents access to the complementary locking mechanism. It is

believed this amendment is supported by the description and also forms part of the common general inventive concept.

With regard to the Examiner's objection in Paragraph V.2 regarding novelty and inventive step, the Applicant believes that the amendments made in response to the Examiner's objections under Paragraph IV now render the currently claimed invention both novel and inventive. None of the prior art documents cited disclose a package where a portion of the outer sleeve prevents access to the locking mechanism preventing removal of the contents from the package.

In Paragraph V.3, the Examiner raises a number of formal objections for which the Applicant wishes to delay amendments in response to these objections until such time as an allowable set of claims has been decided.

The writer requests the opportunity of a telephone interview with the Examiner should the Examiner following this response disagree that the application complies with EPC, but feel that a further Article 96 Communication cannot be issued. Additionally, or alternatively, the Representative requests on behalf of the Applicant the opportunity of an interview on a face-to-face basis in Munich. Furthermore, the Representative requests on behalf of the Applicant additionally or alternatively that Oral Proceedings should be appointed so that the Applicant may have the opportunity of being heard in this matter prior to issue of any refusal under Article 97 (1) EPC.

JM HEPWORTH HLBBShaw

## A PACKAGE WITH PILFER PROOF ASSEMBLY

## CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims priority to co-pending U.S. Provisional application 60/528,043, filed on December 8, 2003. The entire disclosure of that prior filed application is hereby incorporated by reference.

#### FIELD OF THE INVENTION

[0002] The present invention relates generally to the field of product packaging, and in particular to product containers having an internal locking mechanism and pilfer proof assembly.

#### BACKGROUND OF THE INVENTION

[0003] Product packaging serves a number of important functions, including: protecting the packaged product from damage, attractively displaying the packaged product, preventing theft or tampering, and providing the purchasing consumer easy post-purchase access. In addition, it is desirable for a package to be as inexpensive as possible to manufacture.

# SUMMARY OF THE INVENTION

According to a first aspect of the invention there is provided, a product package, comprising; a product container having an external mating surface, and an outer sleeve retaining said product container, said outer sleeve also including an internal opposing mating surface engaging said external mating surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the internal opposing mating surface.

Preferably, the external mating surface is a tab and said internal opposing mating surface is a recess.

Preferably, the external mating surface is a recess and said internal opposing mating surface is a tab.

Preferably, the tab is resilient.

Preferably, the outer sleeve is resilient.

Preferably, the tab and said outer sleeve are resilient.

According to a second aspect of the invention, there is provided a product package, comprising a product container having at least one external tab; and a resilient outer sleeve retaining and substantially enclosing said product container, said resilient outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the resilient outer sleeve provides a barrier preventing access to the tab receiving recess.

According to a third aspect of the invention, there is provided a product package, comprising; a product container having at least one resilient external tab; and an outer sleeve retaining and substantially enclosing said product container, said outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the outer sleeve provides a barner preventing access to the tab receiving recess.

According to a fourth aspect of the invention, there is provided a product package, comprising a product container having at least one resilient external tab; and an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding internal recess matingly engaged with said at least one resilient external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the internal recess.

According to a fifth aspect of the invention there is provided, a product package, comprising: a product container having at least one recess in its outer surface; and an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding resilient internal tab matingly engaged with said at least one recess in the outer surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the resilient internal tab.

According to a sixth aspect of the invention, there is provided a method for packaging a product in a product container, comprising the following steps: placing the product in the product container having at least one external mating surface; inserting the product container into a product packaging enclosure of a shape suitable for retaining and substantially enclosing said product container, said product packaging enclosure having at least one corresponding opposing mating surface; and engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the product container in position within said product packaging enclosure, wherein a portion of the outer sleeve provides a barrier preventing access to the opposing mating surface.

Preferably, the external mating surface is a tab and said internal opposing mating surface is a recess, and said step of engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the enclosure in position includes inserting said tab into said recess.

Preferably, the tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess.

Preferably, the outer sleave is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said product packaging enclosure to pass over said tab as the product container is inserted into the product packaging enclosure and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

Preferably, the tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

Preferably, the external mating surface is a recess and said internal opposing mating surface is a tab.

Preferably, tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess.

Preferably, the outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

Preferably, the tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

According to a seventh aspect of the invention, there is provided a product packaging assembly to prevent product pilfering, comprising: a molded tray shaped to contain a specified product and having at least one indentation disposed along at least one edge to function as part of a locking mechanism; and a sleeve retaining said molded tray having at least one extended tab disposed along an internal edge matingly interlocking with said at least one indention, wherein a portion of the sleeve provides a barrier preventing access to the extended tab.

Preferably, the molded tray has at least one depression disposed along one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.

Preferably, the molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.

Preferably, the external sleeve is formed by a single piece of material folded over itself and secured at the external edge.

Accordingly to an eighth aspect of the invention, there is provided a packaging assembly to prevent product pillering comprising; a molded tray shaped to contain a specified product and having at least one tab disposed along an edge to function as part of a locking mechanism; and a sleeve retaining said molded tray having at least one corresponding indention disposed along an internal edge of said sleeve matingly interlocking with said at least one tab, wherein a portion of the outer sleeve provides a barrier preventing access to the indentation.

Preferably, the molded tray has a plurality of shaped receiving cavities to hold specific contents.

Preferably, the molded tray has at least one depression disposed along at least one end of the molded tray and at least one depression disposed along at least one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.

Preferably, the molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.

Preferably, the external sleeve is formed by a single piece of material folded over and secured at the external edge.

According to a ninth aspect of the invention, there is provided a packaging assembly to prevent product pilfering comprising: an outer sleeve of tapered shape configured so that the openings of the sleeve are different sizes and containing at least one notched internal edge; and a clamshell molded tray configured to fully enclose a specific product and to be partially inserted within said outer sleeve, said tray having at least one extended tab matingly engaging with said at least one notched internal edge of said outer sleeve, wherein a portion of the outer sleeve provides З barrier preventing the notched access to internal edge.

Preferably, the outer sleeve is comprised of a single piece of material folded over and secured at the external edge.

According to a tenth aspect of the invention, there is provided a product package comprising a complementary locking mechanism, wherein the package comprises a product container having a first part of a complementary locking mechanism and an outer sleeve comprising a second part of a complementary locking mechanism such that the complementary locking mechanism prevents the product container from being slidably moved within the outer sleeve wherein a portion of the outer sleeve provides a barrier to prevent access to the complementary locking mechanism to prevent tampering with the complementary locking mechanism.

Preferably, the outer sleeve is formed from a single unitary blank wherein the single unitary blank comprises the second.

Preferably, the first part of the complementary locking mechanism is a recess.

Preferably, the first part of the complementary locking mechanism is a protrusion.

Preferably, the second part of the complementary locking mechanism is a recess.

Preferably, the second part of the complementary locking mechanism is a protrusion.

[0004] The present invention fulfills the needs identified above by providing packaging comprising a product container for protecting the product from damage and attractively displaying the product, retained within an outer sleeve to prevent theft or tampering. The present invention includes an interior product container having a mating surface on the exterior of the product container and an outer sleeve having a corresponding opposing mating surface on the interior of the outer sleeve for locking the outer sleeve in position around the product container to prevent theft or tampering.

[0005] In exemplary embodiments, the mating surfaces include panels, tabs, ribs, catches, abutments, edges, cutouts, apertures, and like elements, integral to or attached to either a card or tray, configured to connect with similar complimentary elements associated with an outer sleeve, and referred to herein as the mating surfaces.

[0006] An embodiment of the present invention comprises a tray with an engaging tab and a sleeve with a tray receiving area. At least one pre-formed tray, configured with a receiving cavity to receive and hold at least one portable item, may be locked into the tray receiving area. An outer sleeve configured to receive the tray into a tray receiving area has disposed along it a locking edge configured to engage a tab at a locking position. A tray may be fully or partially inserted within the void defined by the outer sleeve.

[0007] Another embodiment comprises a tray with a recess to receive a locking tab and a sleeve with a locking tab. This tray has disposed along an edge an indention to receive a locking tab. The outer sleeve defines a void configured to receive the tray, and has a locking tab to engage the indention in the tray.

[0008] Other embodiments of the present invention include improved components, such as a monolithically fabricated tray. Here, a tray may be fabricated from any forming technique or process known to those skilled in the art, including but not limited to thermoforming, vacuum forming, and injection molding. The tray comprises at least one recessed cavity configured to receive and hold a product. The tray may also be formed by two hinged halves to fully enclose the product.

[0009] In practice, the embodiments of the present invention are configured to resist access to an item by securing the item in a locking package. A method for resisting access to an item secured in an embodiment of the present invention comprises the following steps, presented in the following order for the purposes of teaching and not limitation. Provide a tray container with a means for engagement. Provide an outer sleeve with open ends to form an accessible void, and opposing mating surfaces to interlockingly secure the tray. Align the tray with the open end and orientate the corresponding opposing mating surfaces. Insert the card fully into the void to cause the corresponding opposing mating surfaces to couple or connect. The tray may also have depressions that may be folded and oriented to fill the end of the void and prevent access to the product.

# CLAIMS

# i-claim

- A product package, comprising:
  - a product container having an external maling surface; and

an outer sleeve retaining said product container, said outer sleeve also including an internal opposing mating surface engaging said external mating surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the internal opposing mating surface.

- 2. A product package as claimed in claim 1, wherein said external mating surface is a tab and said internal opposing mating surface is a recess.
- 3. A product package as claimed in claim 2, wherein said tab is resilient.
- 4. A product package as claimed in claim 2 wherein said outer sleeve is resilient.
- 5. A product package as claimed in claim 2, wherein said tab and said outer sleeve are resilient.
- 6. A product package as claimed in claim 1, wherein said external mating surface is a recess and said internal opposing mating surface is a tab.
- 7. A product package as claimed in claim 6, wherein said tab is resilient.
- 8. A product package as claimed in claim 6, wherein said outer sleeve is resilient.
- 9. A product package as claimed in claim 6, wherein said tab and said outer sleeve are resilient.
- 10. A product package, comprising:
  - a product container having at least one external tab; and

a resilient outer sleeve retaining and substantially enclosing said product container, said resilient outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the resilient outer sleeve provides a barrier preventing access to the tab receiving recess.

- 11. A product package as claimed in claim 10, wherein said tab is resilient.
- 12. A product package, comprising:

a product container having at least one resilient external tab; and

an outer sleeve retaining and substantially enclosing said product container, said outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the tab receiving recess.

- 13. A product package as claimed in claim 12 wherein said outer sleeve is resilient.
- 14. A product package, comprising:

a product container having at least one resilient external tab; and

an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding internal recess matingly engaged with said at least one resilient external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the internal recess.

- 15. A product package as claimed in claim 12 wherein said outer sleeve is resilient.
- 16. A product package, comprising:

a product container having at least one recess in its outer surface; and

an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding resilient internal tab matingly engaged with said at least one recess in the outer surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the resilient internal tab.

- 17. A product package as claimed in claim 16 wherein said outer sleeve is resilient.
- 18. A method for packaging a product in a product container, comprising the following steps:

placing the product in the product container having at least one external mating surface;

inserting the product container into a product packaging enclosure of a shape suitable for retaining and substantially enclosing said product container, said product packaging enclosure having at least one corresponding opposing mating surface; and

engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the product container in position within said product packaging enclosure, wherein a portion of the outer sleeve provides a barrier preventing access to the opposing mating surface.

- 19. A method for packaging a product as claimed in claim 18, wherein said external mating surface is a tab and said internal opposing mating surface is a recess, and said step of engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the enclosure in position includes inserting said tab into said recess.
- 20. A method for packaging a product as claimed in claim 19, wherein said tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the

product packaging enclosure and allowing said tab to spring back upon insertion into said recess.

- 21. A method for packaging a product as claimed in claim 19 wherein said outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said product packaging enclosure to pass over said tab as the product container is inserted into the product packaging enclosure and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.
- 22. A method for packaging a product as claimed in claim 19, wherein said tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.
- 23. A method for packaging a product claimed in claim 18, wherein said external mating surface is a recess and said internal opposing mating surface is a tab.
- 24. A method for packaging a product as claimed in claim 23, wherein said tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess.
- 25. A method for packaging a product as claimed in claim 23, wherein said outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially

restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

- 26. A method for packaging a product as claimed in claim 23, wherein said tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.
- 27. A product packaging assembly to prevent product pilfering, comprising:

a molded tray shaped to contain a specified product and having at least one indentation disposed along at least one edge to function as part of a locking mechanism; and

a sleeve retaining said molded tray having at least one extended tab disposed along an internal edge matingly interlocking with said at least one indention, wherein a portion of the sleeve provides a barrier preventing access to the extended tab.

- 28. The assembly as claimed in claim 27 wherein said molded tray has at least one depression disposed along one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.
- 29. The assembly as claimed in claim 27 wherein said molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.
- 30. The assembly as claimed in claim 27 wherein said external sleeve is formed by a single piece of material folded over itself and secured at the external edge.
- 31. A packaging assembly to prevent product pilfering comprising:

a molded tray shaped to contain a specified product and having at least one tab disposed along an edge to function as part of a locking mechanism; and

a sleeve retaining said molded tray having at least one corresponding indention disposed along an internal edge of said sleeve matingly interlocking with said at least one tab, wherein a portion of the outer sleeve provides a barrier preventing access to the indentation.

- 32. The assembly as claimed in claim 31 wherein said molded tray has a plurality of shaped receiving cavities to hold specific contents.
- 33. The assembly as claimed in claim 31 wherein said molded tray has at least one depression disposed along at least one end of the molded tray and at least one depression disposed along at least one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.
- 34. The assembly as claimed in claim 31 wherein said molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.
- 35. The assembly as claimed in claim 31 wherein said external sleeve is formed by a single piece of material folded over and secured at the external edge.
- 36. A packaging assembly to prevent product pilfering comprising:

an outer sleeve of tapered shape configured so that the openings of the sleeve are different sizes and containing at least one notched internal edge; and

a clamshell molded tray configured to fully enclose a specific product and to be partially inserted within said outer sleeve, said tray having at least one extended tab matingly engaging with said at least one notched internal edge of said outer sleeve, wherein a portion of the outer sleeve provides a barrier preventing access to the notched internal edge.

- 37. The assembly as claimed in claim 36 wherein said outer sleeve is comprised of a single piece of material folded over and secured at the external edge.
- 38. A product package comprising a complementary locking mechanism, wherein the package comprises a product container having a first part of a complementary locking mechanism and an outer sleeve comprising a second part of a complementary locking mechanism such that the complementary locking mechanism prevents the product container from being slidably moved within the outer sleeve wherein a portion of the outer sleeve provides a barrier to prevent access to the complementary locking mechanism to prevent tampering with the complementary locking mechanism.
- 39. A product package according to claim 38 wherein the outer sleeve is formed from a single unitary blank wherein the single unitary blank comprises the second.
- 40. A product package according to either of claims 38 or 39 where the first part of the complementary locking mechanism is a recess.
- 41. A product package according to either of claims 38 or 39 where the first part of the complementary locking mechanism is a protrusion.
- 42. A product package according to either of claims 38 or 39 where the second part of the complementary locking mechanism is a recess.
- 43. A product package according to either of claims 38 or 39 where the second part of the complementary locking mechanism is a protrusion.

## A PACKAGE WITH PILFER PROOF ASSEMBLY

## **CROSS-REFERENCE TO RELATED APPLICATION**

[0001] This application claims priority to co-pending U.S. Provisional application 60/528,043, filed on December 8, 2003. The entire disclosure of that prior filed application is hereby incorporated by reference.

### FIELD OF THE INVENTION

[0002] The present invention relates generally to the field of product packaging, and in particular to product containers having an internal locking mechanism and pilfer proof assembly.

#### **BACKGROUND OF THE INVENTION**

[0003] Product packaging serves a number of important functions, including: protecting the packaged product from damage, attractively displaying the packaged product, preventing theft or tampering, and providing the purchasing consumer easy post-purchase access. In addition, it is desirable for a package to be as inexpensive as possible to manufacture.

# SUMMARY OF THE INVENTION

According to a first aspect of the invention there is provided, a product package, comprising: a product container having an external mating surface; and an outer sleeve retaining said product container, said outer sleeve also including an internal opposing mating surface engaging said external mating surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the internal opposing mating surface.

Preferably, the external mating surface is a tab and said internal opposing mating surface is a recess.

Preferably, the external mating surface is a recess and said internal opposing mating surface is a tab.

Preferably, the tab is resilient.

Preferably, the outer sleeve is resilient.

Preferably, the tab and said outer sleeve are resilient.

According to a second aspect of the invention, there is provided a product package, comprising: a product container having at least one external tab; and a resilient outer sleeve retaining and substantially enclosing said product container, said resilient outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the resilient outer sleeve provides a barrier preventing access to the tab receiving recess.

According to a third aspect of the invention, there is provided a product package, comprising: a product container having at least one resilient external tab; and an outer sleeve retaining and substantially enclosing said product container, said outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the tab receiving recess.

According to a fourth aspect of the invention, there is provided a product package, comprising: a product container having at least one resilient external tab; and an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding internal recess matingly engaged with said at least one resilient external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the internal recess.

According to a fifth aspect of the invention there is provided, a product package, comprising: a product container having at least one recess in its outer surface; and an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding resilient internal tab matingly engaged with said at least one recess in the outer surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the resilient internal tab.

According to a sixth aspect of the invention, there is provided a method for packaging a product in a product container, comprising the following steps: placing the product in the product container having at least one external mating surface; inserting the product container into a product packaging enclosure of a shape suitable for retaining and substantially enclosing said product container, said product packaging enclosure having at least one corresponding opposing mating surface; and engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the product container in position within said product packaging enclosure, wherein a portion of the outer sleeve provides a barrier preventing access to the opposing mating surface.

Preferably, the external mating surface is a tab and said internal opposing mating surface is a recess, and said step of engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the enclosure in position includes inserting said tab into said recess.

Preferably, the tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess.

Preferably, the outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said product packaging enclosure to pass over said tab as the product container is inserted into the product packaging enclosure and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

Preferably, the tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

Preferably, the external mating surface is a recess and said internal opposing mating surface is a tab.

Preferably, tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess.

Preferably, the outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

Preferably, the tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

According to a seventh aspect of the invention, there is provided a product packaging assembly to prevent product pilfering, comprising: a molded tray shaped to contain a specified product and having at least one indentation disposed along at least one edge to function as part of a locking mechanism; and a sleeve retaining said molded tray having at least one extended tab disposed along an internal edge matingly interlocking with said at least one indention, wherein a portion of the sleeve provides a barrier preventing access to the extended tab.

Preferably, the molded tray has at least one depression disposed along one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.

Preferably, the molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.

Preferably, the external sleeve is formed by a single piece of material folded over itself and secured at the external edge.

Accordingly to an eighth aspect of the invention, there is provided a packaging assembly to prevent product pilfering comprising: a molded tray shaped to contain a specified product and having at least one tab disposed along an edge to function as part of a locking mechanism; and a sleeve retaining said molded tray having at least one corresponding indention disposed along an internal edge of said sleeve matingly interlocking with said at least one tab, wherein a portion of the outer sleeve provides a barrier preventing access to the indentation.

Preferably, the molded tray has a plurality of shaped receiving cavities to hold specific contents.

Preferably, the molded tray has at least one depression disposed along at least one end of the molded tray and at least one depression disposed along at least one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.

Preferably, the molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.

Preferably, the external sleeve is formed by a single piece of material folded over and secured at the external edge.

According to a ninth aspect of the invention, there is provided a packaging assembly to prevent product pilfering comprising: an outer sleeve of tapered shape configured so that the openings of the sleeve are different sizes and containing at least one notched internal edge; and a clamshell molded tray configured to fully enclose a specific product and to be partially inserted within said outer sleeve, said tray having at least one extended tab matingly engaging with said at least one notched internal edge of said outer sleeve, wherein a portion of the outer sleeve provides barrier notched preventing internal the а access to edge.

Preferably, the outer sleeve is comprised of a single piece of material folded over and secured at the external edge.

According to a tenth aspect of the invention, there is provided a product package comprising a complementary locking mechanism, wherein the package comprises a product container having a first part of a complementary locking mechanism and an outer sleeve comprising a second part of a complementary locking mechanism such that the complementary locking mechanism prevents the product container from being slidably moved within the outer sleeve wherein a portion of the outer sleeve provides a barrier to prevent access to the complementary locking mechanism to prevent tampering with the complementary locking mechanism.

Preferably, the outer sleeve is formed from a single unitary blank wherein the single unitary blank comprises the second.

Preferably, the first part of the complementary locking mechanism is a recess.

Preferably, the first part of the complementary locking mechanism is a protrusion.

Preferably, the second part of the complementary locking mechanism is a recess.

Preferably, the second part of the complementary locking mechanism is a protrusion.

[0004] The present invention fulfills the needs identified above by providing packaging comprising a product container for protecting the product from damage and attractively displaying the product, retained within an outer sleeve to prevent theft or tampering. The present invention includes an interior product container having a mating surface on the exterior of the product container and an outer sleeve having a corresponding opposing mating surface on the interior of the outer sleeve for locking the outer sleeve in position around the product container to prevent theft or tampering.

[0005] In exemplary embodiments, the mating surfaces include panels, tabs, ribs, catches, abutments, edges, cutouts, apertures, and like elements, integral to or attached to either a card or tray, configured to connect with similar complimentary elements associated with an outer sleeve, and referred to herein as the mating surfaces.

[0006] An embodiment of the present invention comprises a tray with an engaging tab and a sleeve with a tray receiving area. At least one pre-formed tray, configured with a receiving cavity to receive and hold at least one portable item, may be locked into the tray receiving area. An outer sleeve configured to receive the tray into a tray receiving area has disposed along it a locking edge configured to engage a tab at a locking position. A tray may be fully or partially inserted within the void defined by the outer sleeve.

[0007] Another embodiment comprises a tray with a recess to receive a locking tab and a sleeve with a locking tab. This tray has disposed along an edge an indention to receive a locking tab. The outer sleeve defines a void configured to receive the tray, and has a locking tab to engage the indention in the tray.

[0008] Other embodiments of the present invention include improved components, such as a monolithically fabricated tray. Here, a tray may be fabricated from any forming technique or process known to those skilled in the art, including but not limited to thermoforming, vacuum forming, and injection molding. The tray comprises at least one recessed cavity configured to receive and hold a product. The tray may also be formed by two hinged halves to fully enclose the product.

[0009] In practice, the embodiments of the present invention are configured to resist access to an item by securing the item in a locking package. A method for resisting access to an item secured in an embodiment of the present invention comprises the following steps, presented in the following order for the purposes of teaching and not limitation. Provide a tray container with a means for engagement. Provide an outer sleeve with open ends to form an accessible void, and opposing mating surfaces to interlockingly secure the tray. Align the tray with the open end and orientate the corresponding opposing mating surfaces. Insert the card fully into the void to cause the corresponding opposing mating surfaces to couple or connect. The tray may also have depressions that may be folded and oriented to fill the end of the void and prevent access to the product.

# CLAIMS

1. A product package, comprising:

a product container having an external mating surface; and

an outer sleeve retaining said product container, said outer sleeve also including an internal opposing mating surface engaging said external mating surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the internal opposing mating surface.

- 2. A product package as claimed in claim 1, wherein said external mating surface is a tab and said internal opposing mating surface is a recess.
- 3. A product package as claimed in claim 2, wherein said tab is resilient.
- 4. A product package as claimed in claim 2 wherein said outer sleeve is resilient.
- 5. A product package as claimed in claim 2, wherein said tab and said outer sleeve are resilient.
- 6. A product package as claimed in claim 1, wherein said external mating surface is a recess and said internal opposing mating surface is a tab.
- 7. A product package as claimed in claim 6, wherein said tab is resilient.
- 8. A product package as claimed in claim 6, wherein said outer sleeve is resilient.
- 9. A product package as claimed in claim 6, wherein said tab and said outer sleeve are resilient.
- 10. A product package, comprising:
  - a product container having at least one external tab; and

a resilient outer sleeve retaining and substantially enclosing said product container, said resilient outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the resilient outer sleeve provides a barrier preventing access to the tab receiving recess.

- 11. A product package as claimed in claim 10, wherein said tab is resilient.
- 12. A product package, comprising:

a product container having at least one resilient external tab; and

an outer sleeve retaining and substantially enclosing said product container, said outer sleeve further including at least one corresponding tab receiving recess matingly engaging said at least one external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the tab receiving recess.

- 13. A product package as claimed in claim 12 wherein said outer sleeve is resilient.
- 14. A product package, comprising:

a product container having at least one resilient external tab; and

an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding internal recess matingly engaged with said at least one resilient external tab, wherein a portion of the outer sleeve provides a barrier preventing access to the internal recess.

- 15. A product package as claimed in claim 12 wherein said outer sleeve is resilient.
- A product package, comprising:

a product container having at least one recess in its outer surface; and

an outer sleeve having at least one opening configured to enable said outer sleeve to slide over said product container to retain and substantially enclose said product container and having at least one corresponding resilient internal tab matingly engaged with said at least one recess in the outer surface of said product container, wherein a portion of the outer sleeve provides a barrier preventing access to the resilient internal tab.

- A product package as claimed in claim 16 wherein said outer sleeve is resilient.
- 18. A method for packaging a product in a product container, comprising the following steps:

placing the product in the product container having at least one external mating surface;

inserting the product container into a product packaging enclosure of a shape suitable for retaining and substantially enclosing said product container, said product packaging enclosure having at least one corresponding opposing mating surface; and

engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the product container in position within said product packaging enclosure, wherein a portion of the outer sleeve provides a barrier preventing access to the opposing mating surface.

- 19. A method for packaging a product as claimed in claim 18, wherein said external mating surface is a tab and said internal opposing mating surface is a recess, and said step of engaging said at least one external mating surface and said at least one corresponding opposing mating surface to lock the enclosure in position includes inserting said tab into said recess.
- 20. A method for packaging a product as claimed in claim 19, wherein said tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the

product packaging enclosure and allowing said tab to spring back upon insertion into said recess.

- 21. A method for packaging a product as claimed in claim 19 wherein said outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said product packaging enclosure to pass over said tab as the product container is inserted into the product packaging enclosure and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.
- 22. A method for packaging a product as claimed in claim 19, wherein said tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.
- 23. A method for packaging a product claimed in claim 18, wherein said external mating surface is a recess and said internal opposing mating surface is a tab.
- 24. A method for packaging a product as claimed in claim 23, wherein said tab is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess.
- 25. A method for packaging a product as claimed in claim 23, wherein said outer sleeve is resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially

restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.

- 26. A method for packaging a product as claimed in claim 23, wherein said tab and said outer sleeve are resilient, and said step of inserting said product container into said product packaging enclosure includes deflecting said tab and deflecting said product packaging enclosure as the product container is inserted into the product packaging enclosure and allowing said tab to spring back upon insertion into said recess and substantially restoring said product packaging enclosure to its intended shape in order to enable said tab to lockingly engage said recess.
- 27. A product packaging assembly to prevent product pilfering, comprising:

a molded tray shaped to contain a specified product and having at least one indentation disposed along at least one edge to function as part of a locking mechanism; and

a sleeve retaining said molded tray having at least one extended tab disposed along an internal edge matingly interlocking with said at least one indention, wherein a portion of the sleeve provides a barrier preventing access to the extended tab.

- 28. The assembly as claimed in claim 27 wherein said molded tray has at least one depression disposed along one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.
- 29. The assembly as claimed in claim 27 wherein said molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.
- 30. The assembly as claimed in claim 27 wherein said external sleeve is formed by a single piece of material folded over itself and secured at the external edge.
- 31. A packaging assembly to prevent product pilfering comprising:

a molded tray shaped to contain a specified product and having at least one tab disposed along an edge to function as part of a locking mechanism; and

a sleeve retaining said molded tray having at least one corresponding indention disposed along an internal edge of said sleeve matingly interlocking with said at least one tab, wherein a portion of the outer sleeve provides a barrier preventing access to the indentation.

- 32. The assembly as claimed in claim 31 wherein said molded tray has a plurality of shaped receiving cavities to hold specific contents.
- 33. The assembly as claimed in claim 31 wherein said molded tray has at least one depression disposed along at least one end of the molded tray and at least one depression disposed along at least one end of the molded tray to prevent access to the contents while said molded tray is locked within said sleeve.
- The assembly as claimed in claim 31 wherein said molded tray is comprised of halves, each of which incorporates at least one shaped receiving cavity in order to substantially surround the specific contents when the halves are folded together.
- 35. The assembly as claimed in claim 31 wherein said external sleeve is formed by a single piece of material folded over and secured at the external edge.
- 36. A packaging assembly to prevent product pilfering comprising:

an outer sleeve of tapered shape configured so that the openings of the sleeve are different sizes and containing at least one notched internal edge; and

a clamshell molded tray configured to fully enclose a specific product and to be partially inserted within said outer sleeve, said tray having at least one extended tab matingly engaging with said at least one notched internal edge of said outer sleeve, wherein a portion of the outer sleeve provides a barrier preventing access to the notched internal edge.

- 37. The assembly as claimed in claim 36 wherein said outer sleeve is comprised of a single piece of material folded over and secured at the external edge.
- 38. A product package comprising a complementary locking mechanism, wherein the package comprises a product container having a first part of a complementary locking mechanism and an outer sleeve comprising a second part of a complementary locking mechanism such that the complementary locking mechanism prevents the product container from being slidably moved within the outer sleeve wherein a portion of the outer sleeve provides a barrier to prevent access to the complementary locking mechanism to prevent tampering with the complementary locking mechanism.
- 39. A product package according to claim 38 wherein the outer sleeve is formed from a single unitary blank wherein the single unitary blank comprises the second.
- 40. A product package according to either of claims 38 or 39 where the first part of the complementary locking mechanism is a recess.
- 41. A product package according to either of claims 38 or 39 where the first part of the complementary locking mechanism is a protrusion.
- 42. A product package according to either of claims 38 or 39 where the second part of the complementary locking mechanism is a recess.
- 43. A product package according to either of claims 38 or 39 where the second part of the complementary locking mechanism is a protrusion.



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P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

(+31-70) 340-2040 Tx 31 651 epc nl Fax (+31-70) 340-3016

D-10958 Berlin

(+49-30) 25901-0

Fax (+49-30) 25901-640

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Applicati	ings- (und Direktions-*) Nr./Patent Nr. on (and Directorate*) (No./Patent No. demande (et de la direction*)/nº du breve	ihr Zeichen Your reference it Votre référence	ggls. Art und Datum der Unterlagen*! Nature and date of items (optional)** Nature at date des pièces (facultatif)**
3.	PCT/US2004/040970	PW0051624	Letter dated 25 November 2005
2			Applicant's reponse (2 pages)
3			Amended pages 1 and 2 of description
4			Newly inserted pages 2a to 2e of
5			description
<b>.</b> €		······································	Amended pages 14 to 20 of claims
7.			(2 sets - 1 set highlighting changes)
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